

That which is claimed is:

1. An apparatus comprising:
a plurality of segment loading indicators configured to be electrically coupled to respective load segment outputs of a power supply, each of the segment loading
5 indicators operative to provide an indication of a loading of the associated load segment output.
2. An apparatus according to Claim 1, wherein at least one of the segment loading indicators is operative to provide an indication of a loading of the associated
10 load segment output with respect to load rating of the associated load segment output.
3. An apparatus according to Claim 1, wherein at least one of the segment loading indicators is operative to provide an indication of a loading of the associated load segment output with respect to a load rating of a circuit protection device that
15 protects the associated load segment output.
4. An apparatus according to Claim 1, wherein at least one of the segment loading indicators is operative to provide an indication of the loading of the associated load segment output within a rated load range of the associated load segment output.
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5. An apparatus according to Claim 1, wherein at least one of the segment loading indicators is operative to provide a visual indication of the loading of the associated load segment output.
- 25 6. An apparatus according to Claim 1, wherein the plurality of segment loading indicators are integrated in the power supply.
7. An apparatus according to Claim 4, wherein the plurality of segment loading indicators comprises a plurality of segment loading indicators integrated in an uninterruptible power supply (UPS), and wherein respective ones of the segment
30 loading indicators are operative to provide a visual indication of respective loadings of respective load segment outputs of the UPS.

8. An apparatus according to Claim 1, wherein the plurality of segment loading indicators are integrated in a power distribution device configured to be connected to the power supply and including the load segment outputs.

5 9. An apparatus according to Claim 8, wherein the power distribution device comprises one of a power distribution unit (PDU) or load panel.

10 10. An apparatus according to Claim 1, wherein at least one of the segment loading indicators is operative to provide respective visual indications for respective load levels.

11. An apparatus according to Claim 10, wherein the at least one of the segment loading indicators is further operative to provide a visual indication of an overload.

15 12. An apparatus according to Claim 10, wherein the at least one of the segment loading indicators is operative to provide respective color displays for respective load levels.

20 13. An apparatus according to Claim 10, wherein the at least one of the segment loading indicators is operative to provide a first visual indication for a first less than fully loaded condition and to provide a second visual indication for a second less than fully loaded condition.

25 14. An apparatus according to Claim 1, wherein at least one of the segment loading indicators comprises:

a current detector circuit operative to generate a current detector signal representative of current at the associated load segment output; and

30 a display circuit operative to generate a visual display responsive to the current detector signal.

15. An apparatus according to Claim 14, wherein the current detector circuit comprises a current transformer.

16. An apparatus according to Claim 14, wherein the current detector circuit comprises a current sense resistor.

17. A UPS comprising:
5 a housing having first and second panels;
a power output at the second panel of the housing;
uninterruptible power supply circuitry supported by the housing and operative to generate a voltage at the power output;
a user interface positioned at the first panel of the housing and operatively
10 associated with the uninterruptible power supply circuitry; and
a loading indicator coupled to the power output and operative to provide a visual indication at the second panel of the housing of a loading of the power output.

18. A UPS according to Claim 17, wherein the loading indicator is
15 operative to provide a visual indication of a loading of the outlet within a rated load range.

19. A UPS according to Claim 17, further comprising a protective device that protects the power outlet, and wherein the loading indicator is operative to
20 provide a visual indication of a loading of the power output with respect to a load rating of the protective device.

20. A UPS according to Claim 17, wherein the power output comprises a plurality of load segment outputs, and wherein the relative loading indicator comprise
25 a plurality of segment loading indicators, respective ones of which are operative to provide respective visual indications of loadings of the respective load segment outputs with respect to load ratings of the load segment outputs.

21. A UPS according to Claim 20, wherein the user interface comprises a
30 load indicator positioned at the front panel of the housing and operative to provide an indication of an aggregate loading of the UPS load segment outputs.

22. A UPS according to Claim 17, wherein the loading indicator is operative to provide respective visual indications for respective load levels.

23. A UPS according to Claim 22, wherein the loading indicator is operative to provide respective color displays for respective load levels.

5 24. A UPS according to Claim 22, wherein the loading indicator is operative to provide a first visual indication for a less than fully loaded condition and a second visual indication for an overloaded condition.

10 25. A UPS according to Claim 17, wherein the housing comprises a rack-mountable housing.

 26. A UPS comprising:
 a plurality of load segment outputs;
 uninterruptible power supply circuitry operative to provide power at the load
15 segment outputs; and
 respective segment loading indicators coupled to the respective load segment outputs and operative to provide respective indications of loadings of the respective load segment outputs.

20 27. A UPS according to Claim 26, wherein the segment loading indicators are operative to provide respective indications of respective loadings of the respective load segments with respect to respective load ratings of the load segment outputs.

25 28. A UPS according to Claim 27, wherein the segment loading indicators are operative to provide respective indications of respective loadings of the respective load segment outputs with respect to respective load ratings of respective circuit protection devices that protect the respective load segment outputs.

30 29. A UPS according to Claim 26, wherein the segment loading indicators are operative to provide respective indications of respective loadings of the respective load segment outputs within respective rated load ranges of the respective load segment outputs.

30. A UPS according to Claim 26, wherein the segment loading indicators are operative to provide respective visual indications of respective loadings of the respective load segment outputs.

5 31. A UPS according to Claim 26, wherein the segment loading indicators are operative to provide respective visual indications for respective load levels.

32. A UPS according to Claim 31, wherein the segment loading indicator is operative to provide respective color displays for respective load levels.
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33. A method of operating a UPS having a rear panel output and a front panel user interface, the method comprising:
providing a visual loading indication for the output on the rear panel.

15 34. A method according to Claim 33, wherein the UPS has a plurality of load segment outputs, and wherein providing a loading indication comprises providing respective loading indications for the respective load segment outputs.

35. A method of monitoring power supplied by a power supply, the
20 method comprising:
providing respective segment loading indications for respective load segment outputs of the power supply.

36. A method according to Claim 35, wherein providing respective
25 segment loading indications comprises providing a segment loading indication in a power distribution device that receives power from the power supply.

37. A method according to Claim 36, wherein the power distribution device comprises one of a PDU or a load panel.